BRUHAT BANGALORE MAHANAGARA PALIKE

PWD FORM - 45 (WORK SLIP)

Name of Work: Providing Water Supply through Drilling new Borewells and Water Pipe line in Amruthalli Jakkur, Sahakaranagara, GKVK Layout, Yoshdhanagara, Padma Tent Road, L and T layout, Byatarayanapura and Surrounding areas in Ward No. 07, Byatarayanapura.

Name of Agency: Executive Engineer, KRIDL, # 280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore - 560 010.

Estimated Cost: 99,00,000.00

Tender Amount : Rs. 97,62,121.00 Lakhs

Work Order No. BBMP/EE/BTP/WO/52/2016-17 Dated: 17.01.2018.

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2016-17+/- T.P	Amount				
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation	Each BW	12	1938.46	23262.00	12.00	1938.46	23262.00	9.00	9.00	1938.46	17446.00	0.00	1938.46	0.00	17446.00	5816.00		
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above	Rmtr	600.00	315.18	189108.00	600.00	315.18	189108.00	450.00	450.00	315.18	141831.00	0.00	315.18	0.00	141831.00	47277.00		
	50 to 100 m	Rmtr	600.00	412.00	247200.00	600.00	412.00	247200.00	450.00	450.00	412.00	185400.00	0.00	412.00	0.00	185400.00	61800.00		
	100 to 150 m	Rmtr	600.00	458.35	275010.00	600.00	458.35	275010.00	450.00	450.00	458.35	206258.00	0.00	458.35	0.00	206258.00	68752.00		
	150 to 200 m	Rmtr	600.00	484.10	290460.00	600.00	484.10	290460.00	450.00	450.00	484.10	217845.00	0.00	484.10	0.00	217845.00	72615.00		
	200 to 250 m	Rmtr	600.00	560.32	336192.00	600.00	560.32	336192.00	450.00	450.00	560.32	252144.00	0.00	560.32	0.00	252144.00	84048.00		
	250 to 300 m	Rmtr	600.00	600.49	360294.00	600.00	600.49	360294.00	450.00	450.00	600.49	270221.00	0.00	600.49	0.00	270221.00	90073.00		
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black	Rmtr	840	1325.00	1113000.00	840.00	1325.00	1113000.00	630.00	630.00	1325.00	834750.00	0.00	1325.00	0.00	834750.00	278250.00		
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge	Rmtr	216.00	1100.00	237600.00	216.00	1100.00	237600.00	162.00	162.00	1100.00	178200.00	0.00	1100.00	0.00	178200.00	59400.00		
5	Providing and fixing 160mm Borewell Cap ,with all lead and lift, loading, unloading and labour	No.	12	100.00	1200.00	12.00	100.00	1200.00	9.00	9.00	100.00	900.00	0.00	100.00	0.00	900.00	300.00		
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable	No	12	60400.00	724800.00	12.00	60400.00	724800.00	2.00	2.00	70600.00	141200.00	0.00	60400.00	0.00	141200.00	583600.00		
	12.50 HP 25 Stage								4.00	4.00	60400.00	241600.00	0.00	0.00	0.00	241600.00		241600.00	
	10.00 HP 20 Stage								3.00	3.00	50100.00	150300.00	0.00	0.00	0.00	150300.00		150300.00	
7	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in	Rmtr	3360.00	457.92	1538611.00	3360.00	457.92	1538611.00	2520.00	2520.00	457.92	1153958.00	0.00	457.92	0.00	1153958.00	384653.00		
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with	Mtr	6960.00	126.70	881832.00	6960.00	126.70	881832.00	5220.00	5220.00	126.70	661374.00	0.00	126.70	0.00	661374.00	220458.00		
9	new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new	Length	588	88.00	51744.00	588.00	88.00	51744.00	441.00	441.00	88.00	38808.00	0.00	88.00	0.00	38808.00	12936.00		
10	polished wood board made of not less than 15mm thick plank on both sides with planks made out of	No.	12	302.00	3624.00	12.00	302.00	3624.00	9.00	9.00	302.00	2718.00	0.00	302.00	0.00	2718.00	906.00		

Sl. No.	Description	Unit	Qty.	Rate	Amount	Qty.	Rate	Amount	executed Qty.	Qty.	Rate	Amount	Qty.	Rate 2016-17+/- T.P	Amount	Executed Amount	Savings	Excess	Remar
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
11	aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC	Mtr	420.00	140.40	58968.00	420.00	140.40	58968.00	315.00	315.00	140.40	44226.00	0.00	140.40	0.00	44226.00	14742.00		
12	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, with all	Mtr	420.00	10.80	4536.00	420.00	10.80	4536.00	315.00	315.00	10.80	3402.00	0.00	10.80	0.00	3402.00	1134.00		
13	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and	Mtr	360.00	85.00	30600.00	360.00	85.00	30600.00	270.00	270.00	85.00	22950.00	0.00	85.00	0.00	22950.00	7650.00		
14	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on	Mtr	48.00	345.00	16560.00	48.00	345.00	16560.00	36.00	36.00	345.00	12420.00	0.00	345.00	0.00	12420.00	4140.00		
15	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary	No.	12	280.00	3360.00	12.00	280.00	3360.00	9.00	9.00	280.00	2520.00	0.00	280.00	0.00	2520.00	840.00		
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments	No	12	2727.00	32724.00	12.00	2727.00	32724.00	9.00	9.00	2727.00	24543.00	0.00	2727.00	0.00	24543.00	8181.00		
17	fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer	No.	72	180.00	12960.00	72.00	180.00	12960.00	54.00	54.00	180.00	9720.00	0.00	180.00	0.00	9720.00	3240.00		
18	Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of	No	12	1585.76	19029.00	12.00	1585.76	19029.00	9.00	9.00	1585.76	14272.00	0.00	1585.76	0.00	14272.00	4757.00		
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per	No	12	227.90	2735.00	12.00	227.90	2735.00	9.00	9.00	227.90	2051.00	0.00	227.90	0.00	2051.00	684.00		
20	SSupplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and	No	48	104.30	5006.00	48.00	104.30	5006.00	36.00	36.00	104.30	3755.00	0.00	104.30	0.00	3755.00	1251.00		
21	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl	No	12	1547.00	18564.00	12.00	1547.00	18564.00	9.00	9.00	1547.00	13923.00	0.00	1547.00	0.00	13923.00	4641.00		
22	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting,	Sq.Cm	280800.00	0.33	92664.00	280800.00	0.33	92664.00	210600.00	210600.00	0.33	69498.00	0.00	0.33	0.00	69498.00	23166.00		
23	Supplying fully automatic store detta starter unit push button type with suitable wires three	No.	12	6583.00	78996.00	12.00	6583.00	78996.00	9.00	9.00	6583.00	59247.00	0.00	6583.00	0.00	59247.00	19749.00		
24	Earthwork excavation for pipeline foundation including deporiting or bank up to a depth of 50 mtrs	Cum	374.40	188.00	70387.00	374.40	188.00	70387.00	1193.40	468.00	188.00	87984.00	725.40	188.00	136375.00	224359.00		153972.00	
25	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng	Rmtr	960.00	157.00	150720.00	960.00	157.00	150720.00	3060.00	1200.00	157.00	188400.00	1860.00	157.00	292020.00	480420.00		329700.00	
26	Sand filling in wells complete as per drawing and technical specifications etc., complete and		172.80	2922.42	504994.00	172.80	2922.42	504994.00	550.80	216.00	2922.42	631243.00	334.80	2922.42	978426.00	1609669.00		1104675.00	
27	Refilling the bumont and pipeline treanches with secleted available earthe for trench excavation including authority condition in	Cum	201.60	61.00	12298.00	201.60	61.00	12298.00	652.05	252.00	61.00	15372.00	400.05	61.00	24403.00	39775.00		27477.00	

Sl. No.	Description	Unit	Qty.	Rate	Amount	Qty.	Rate	Amount	executed Qty.	Qty.	Rate	Amount	Qty.	Rate 2016-17+/- T.P	Amount	Executed Amount	Savings	Excess	Remar
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
28	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost	Each	12	2729.50	32754.00	12.00	2729.50	32754.00	33.00	15.00	2729.50	40943.00	18.00	2729.50	49131.00	90074.00		57320.00	
	ROOM FOR RO PLANT																		
29	Earth work excavation for foundation of buildings, culverts water supply, sanitary line and	Cum	14.44	204.12	2947.00	14.44	204.12	2947.00	13.00	13.00	204.12	2653.00	0.00	204.12	0.00	2653.00	294.00		
30	Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs**	Cum	3.28	5256.36	17241.00	3.28	5256.36	17241.00	3.28	3.28	5256.36	17252.00	0.00	5256.36	0.00	17252.00		11.00	
31	Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement**	Cum	6.50	4521.96	29393.00	6.50	4521.96	29393.00	6.50	6.50	4521.96	29384.00	0.00	4521.96	0.00	29384.00	9.00		
32	Providing and constructing granite / trap / basalt size stone masonry	Cum	2.92	5405.40	15784.00	2.92	5405.40	15784.00	2.92	2.92	5405.40	15806.00	0.00	5405.40	0.00	15806.00		22.00	
33	Filling available excavated earth (excluding rock) in sides of	Cum	14.44	137.16	1981.00	14.44	137.16	1981.00	13.00	13.00	137.16	1783.00	0.00	137.16	0.00	1783.00	198.00		
34	Providing and laying in position plain cement concrete of mix 1:2:4	Sqm	1.41	5876.28	8286.00	1.41	5876.28	8286.00	1.41	1.41	5876.28	8261.00	0.00	5876.28	0.00	8261.00	25.00		
35	Providing and Construction of pup panel cabin MS material vetical 50 x 100 mm thick tube, rafter 50 x	Each	1.00	268000.00	268000.00	1.00	268000.00	268000.00	1.00	1.00	268000.00	268000.00	0.00	268000.00	0.00	268000.00	0.00	0.00	
36	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality	Sqm	12.41	1285.20	15949.00	12.41	1285.20	15949.00	12.41	12.41	1285.20	15955.00	0.00	1285.20	0.00	15955.00		6.00	
37	**10000 LPD R.O. Plant**																		
	RAW WATER PUMP:																		
	Quantity : 1No.																		
	Type: Centrifugal Mono Block																		
	MOC & Make : UKL																		
	Motor Rating : 0.75 HP																		
	PRESSURE SAND FILTER:																		
	Quantity : 1No.																		
	Capacity : 1000 LPH																		
	MOC & Make of Housing : UKL																		
	MOC & Make of Cartridge : UKL																		
	Capcity : 100 LPH																		
	MOC & Make of Vessel : UKL																		
	Diameter : 40 mm																		
	Type of Valve : Single Multiport																		
	media : Support bed + Sand																		
	MICRON CARTRIDGE FILTER :																		
	Quantity : 1 Set.																		
	Filter Rating : 5 Microns																		
	Size : 20 " Long																		
	ANTISCALANT DOSING PUMPS:																		
	Quanity : 1 Set																		

Sl. No.	Description	Unit	Qty.	Rate	Amount	Qty.	Rate	Amount	executed Qty.	Qty.	Rate	Amount	Qty.	Rate 2016-17+/- T.P	Amount	Executed Amount	Savings	Excess	Remar
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Type : Electro - magnetic																		
	Capacity : 1.5 LPH @ 4 Bar																		
	HIGH PRESSURE PUMP:																		
	Quantity : 1 No																		
	Capacity : 1700 LPH																		
	Type of Pump : Vertical Multistage Centrigugal Pump																		
	MOC : SS 304																		
	Motor Rating : 2 HP, 3 Phase																		
	Maximum Pressure : 12 Kg/ cm2																		
	Make : UKL																		
	RESERVE OSMOSIS SYSTEM :																		
	Quantity : 1 No																		
	Capacity : 1000 LPH																		
	Module Type																		
	Membrane Specifications {Polyamde}																		
	Make of Membrane : UKL																		
	UV STERILISER																		
	Max. Treatment Flow : 1 m3/hr																		
	No. of Lamps : 1 No																		
	Wattage : 39 W																		
	Efficiency : 99.99%																		
	Material of Construction : SS 304																		
	PRODUCT WATER QUALITY:																		
	Appearance : Crystal Clear																		
	Abide by the ISO Standards																		
	S S Tank : 304 Grade with 16 guage 2000 liters Capacity																		
	304 Grade 10 Gauage SS Pipe {with stream valve} 25 Ft																		
	COIN BOOTH DISPENSING UNIT																		
	for 5 Liters & 20 Ltrs Separately																		
	Raw Water Stoage Tank : Dunction - for Storage of Raw Water																		
	Type / MOC : Two / Three Layered PE tanks White / Transparent in color made from virgin material of																		

Sl. No.	Description	Unit	Qty.	Rate	Amount	Qty.	Rate	Amount	executed Qty.	Qty.	Rate	Amount	Qty.	Rate 2016-17+/- T.P	Amount	Executed Amount	Savings	Excess	Remar
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Storage Drinking / Portable Water : 5000 Liters Capacity	Nos	1	946000.00	946000.00	1.00	946000.00	946000.00	1.00	1.00	946000.00	946000.00	0.00	946000.00	0.00	946000.00		0.00	
	ELECTRIFICATION																		
38	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V	Point	3	245.00	735.00	3.00	245.00	735.00	3.00	3.00	245.00	735.00	0.00	245.00	0.00	735.00		0.00	
39	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Point	3	363.00	1089.00	3.00	363.00	1089.00	3.00	3.00	363.00	1089.00	0.00	363.00	0.00	1089.00		0.00	
40	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick	Each	15	68.00	1020.00	15.00	68.00	1020.00	15.00	15.00	68.00	1020.00	0.00	68.00	0.00	1020.00		0.00	
41	(1.6.1) 12"x12"x3" (300x300x76mm)	Each	10	116.00	1160.00	10.00	116.00	1160.00	10.00	10.00	116.00	1160.00	0.00	116.00	0.00	1160.00		0.00	
42	(1.6.3)10"x7"x3" (254x178x76mm)	Each	8	87.00	696.00	8.00	87.00	696.00	8.00	8.00	87.00	696.00	0.00	87.00	0.00	696.00		0.00	
43	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing	SqCM	33333	0.25	8333.00	33333.00	0.25	8333.00	33333.00	33333.00	0.25	8333.00	0.00	0.25	0.00	8333.00		0.00	
44	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe	Mtr	25	21.00	525.00	25.00	21.00	525.00	25.00	25.00	21.00	525.00	0.00	21.00	0.00	525.00		0.00	
45	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends,	Mtr	25	56.00	1400.00	25.00	56.00	1400.00	25.00	25.00	56.00	1400.00	0.00	56.00	0.00	1400.00		0.00	
46	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with	Each	4	88.00	352.00	4.00	88.00	352.00	4.00	4.00	88.00	352.00	0.00	88.00	0.00	352.00		0.00	
47	Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting,	Each	4	591.00	2364.00	4.00	591.00	2364.00	4.00	4.00	591.00	2364.00	0.00	591.00	0.00	2364.00		0.00	
48	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper	Mtr	15	18.60	279.00	15.00	18.60	279.00	15.00	15.00	18.60	279.00	0.00	18.60	0.00	279.00		0.00	
49	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard,	Each	8	747.00	5976.00	8.00	747.00	5976.00	8.00	8.00	747.00	5976.00	0.00	747.00	0.00	5976.00		0.00	
50	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's	No	1	2727.00	2727.00	1.00	2727.00	2727.00	1.00	1.00	2727.00	2727.00	0.00	2727.00	0.00	2727.00		0.00	
51	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed,	Mtr	25.00	140.40	3510.00	25.00	140.40	3510.00	25.00	25.00	140.40	3510.00	0.00	140.40	0.00	3510.00		0.00	
52	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe /	Mtr	25.00	10.80	270.00	25.00	10.80	270.00	25.00	25.00	10.80	270.00	0.00	10.80	0.00	270.00		0.00	
53	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and	Mtr	20.00	85.00	1700.00	20.00	85.00	1700.00	20.00	20.00	85.00	1700.00	0.00	85.00	0.00	1700.00		0.00	
54	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on	Mtr	4.00	345.00	1380.00	4.00	345.00	1380.00	4.00	4.00	345.00	1380.00	0.00	345.00	0.00	1380.00		0.00	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
55	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary	No.	1.00	280.00	280.00	1.00	280.00	280.00	1.00	1.00	280.00	280.00	0.00	280.00	0.00	280.00		0.00	
	Sub Total 10%.				8761169.00			8761169.00								8760667.00			
	Add 8% KRIDL Charges				876116.90			876116.90								876066.70			
	Add 1% third Party Inspection Charges				87611.69			87611.69								87606.67			
	BESCOM Charges				150000.00														
	RO Plant BESCOM Charges				25000.00														
	Miscelaneous and unforgen charges	LS			102.00														
	Total				**9900000.00**			**9724897.59**				**6284561.00**			**1480355.00**	**9724340.37**	**2065585.00**	**2065083.00**	

0.006 Below

SUMMARY:

1. **Estimated Cost : Rs. 99.00 Lakhs**
2. **Tender Cost : Rs. 97.24 Lakhs**
3. **Work Slip Amount Rs. 20,65,083.00 = 21.23% of the Tender Amount**
4. **During execution as per requirement and site condition, the total Qty to be executed costs Rs. 98.99 Lakhs which is 0.006% BELOW the Tender cost. The proposal may kindly be approved.**

Bttplf. N.D.

Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/06

"Modified Work Slip approved"

Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Bangalore 92